

6541259

004740 " 8136450

ATPT2	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT3	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT4	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT8	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT12	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT2	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT3	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT4	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT8	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT12	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT2	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT3	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT4	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT8	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500
ATPT12	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500

Figure 1

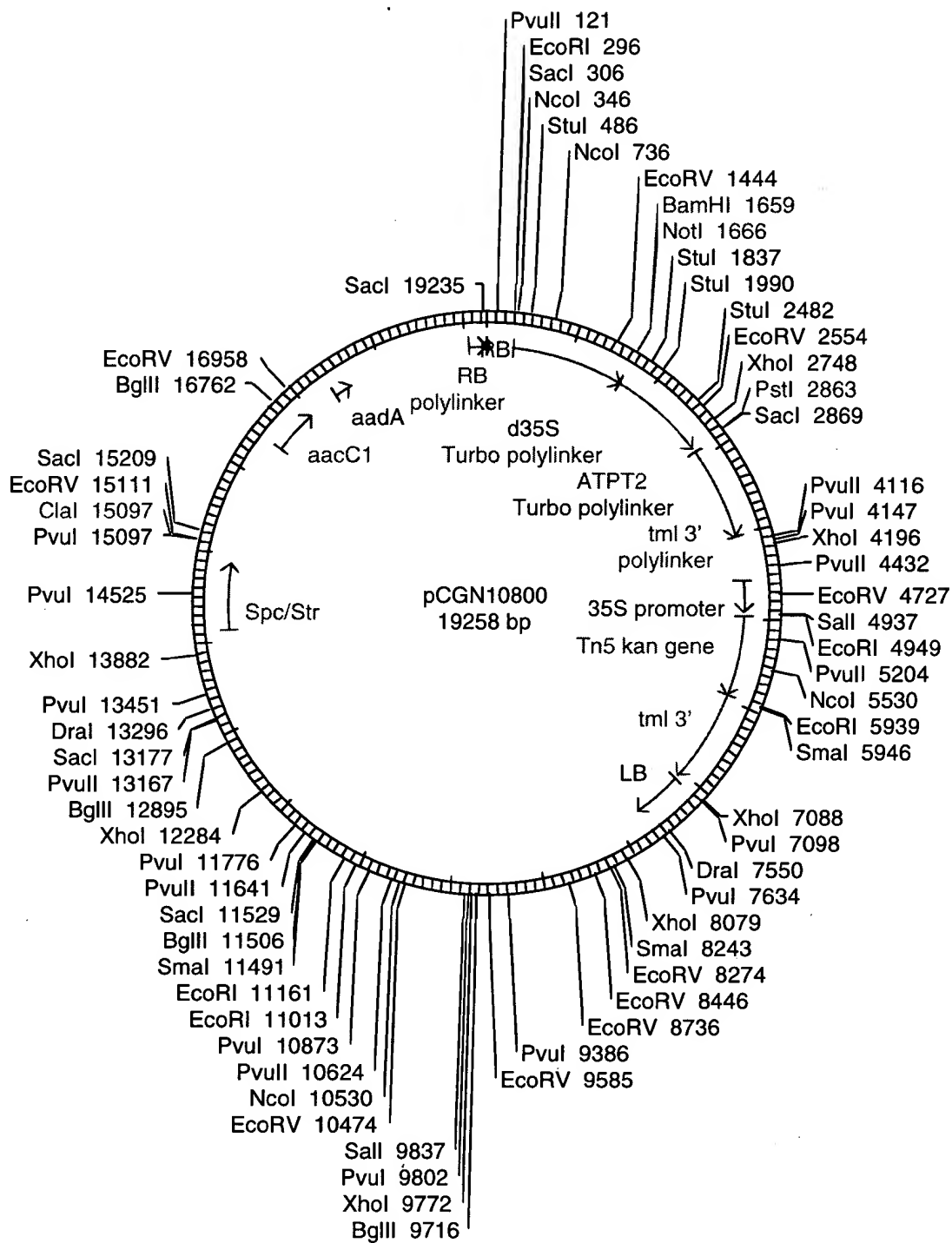


Figure 2

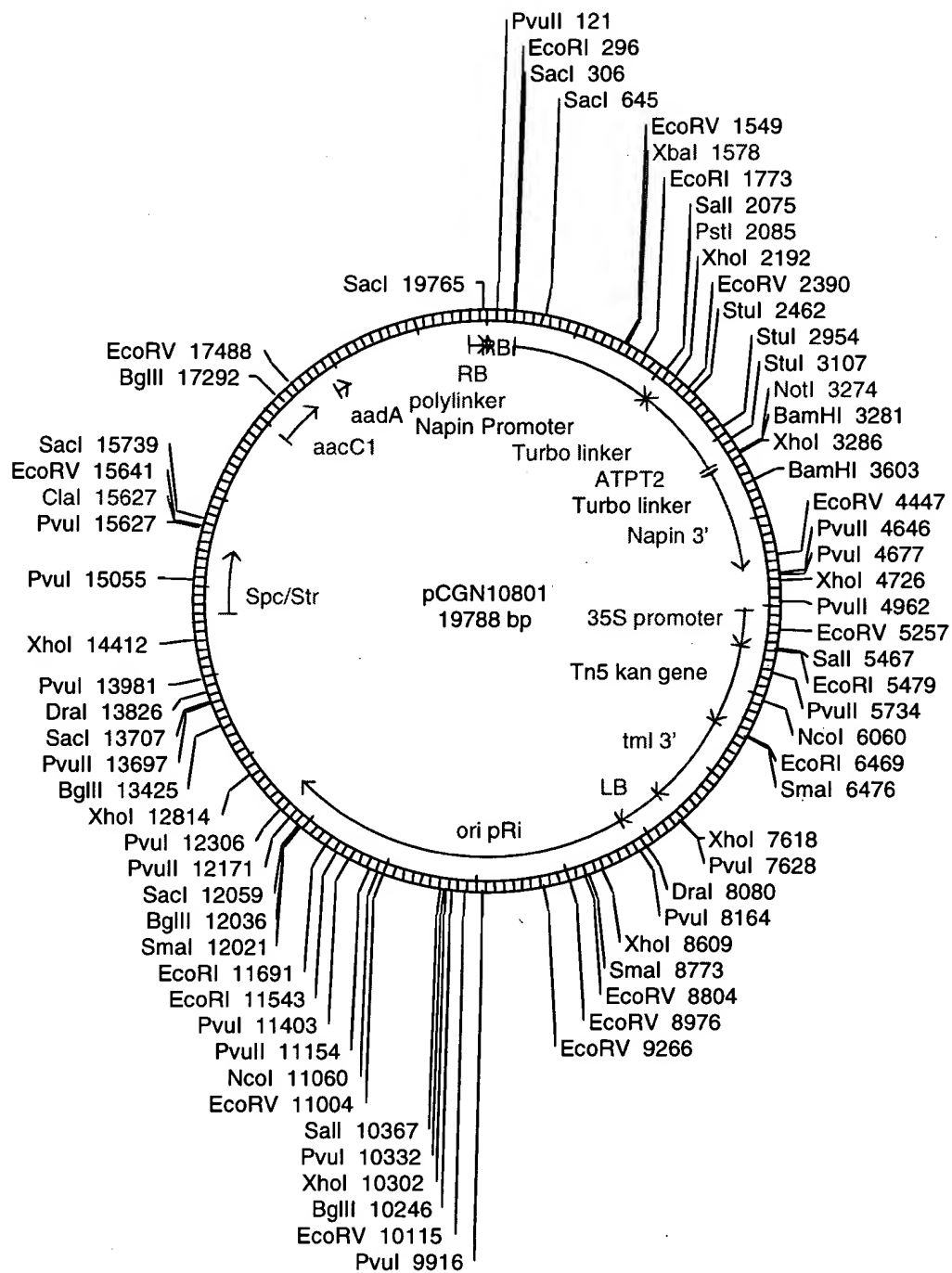


Figure 3

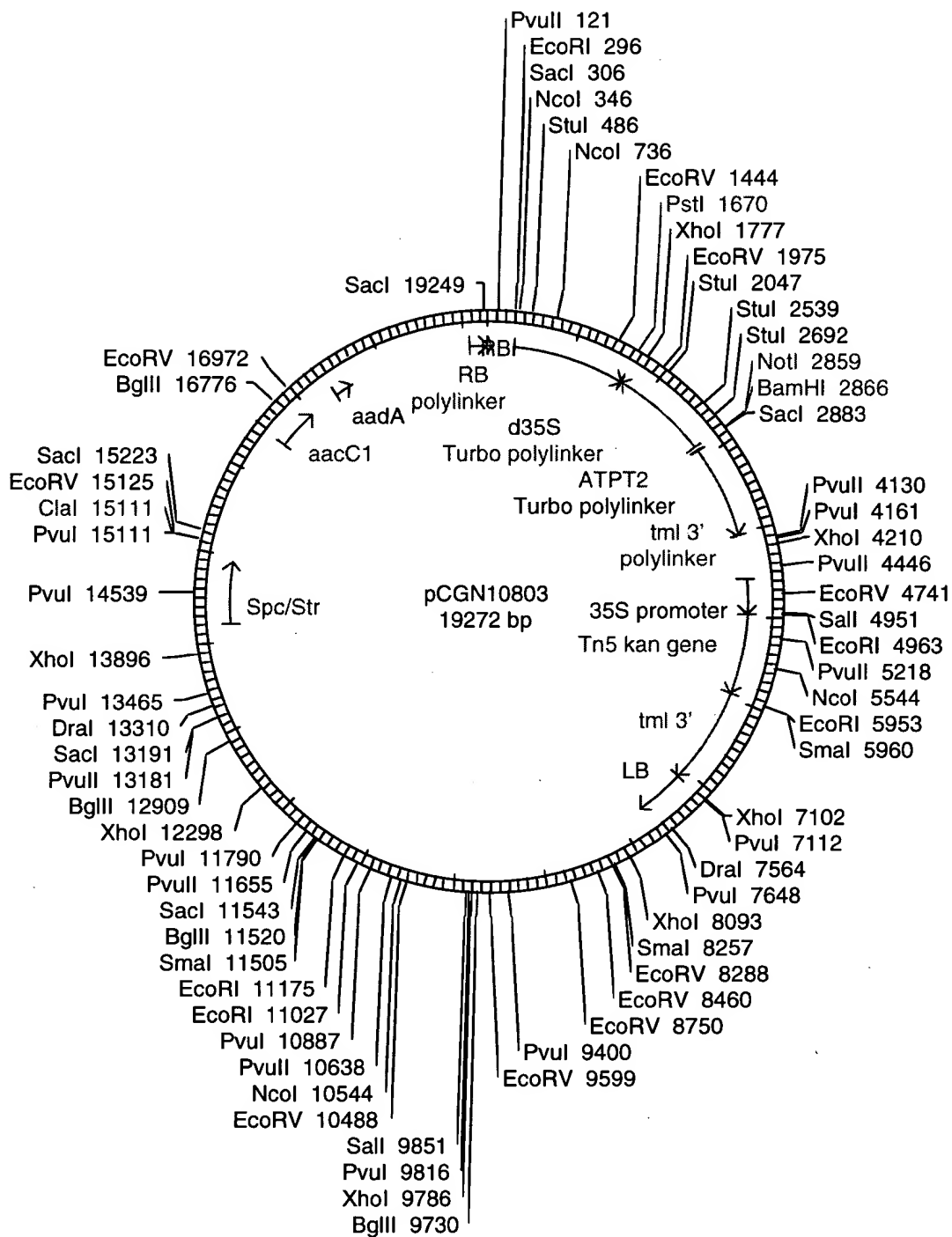


Figure 4

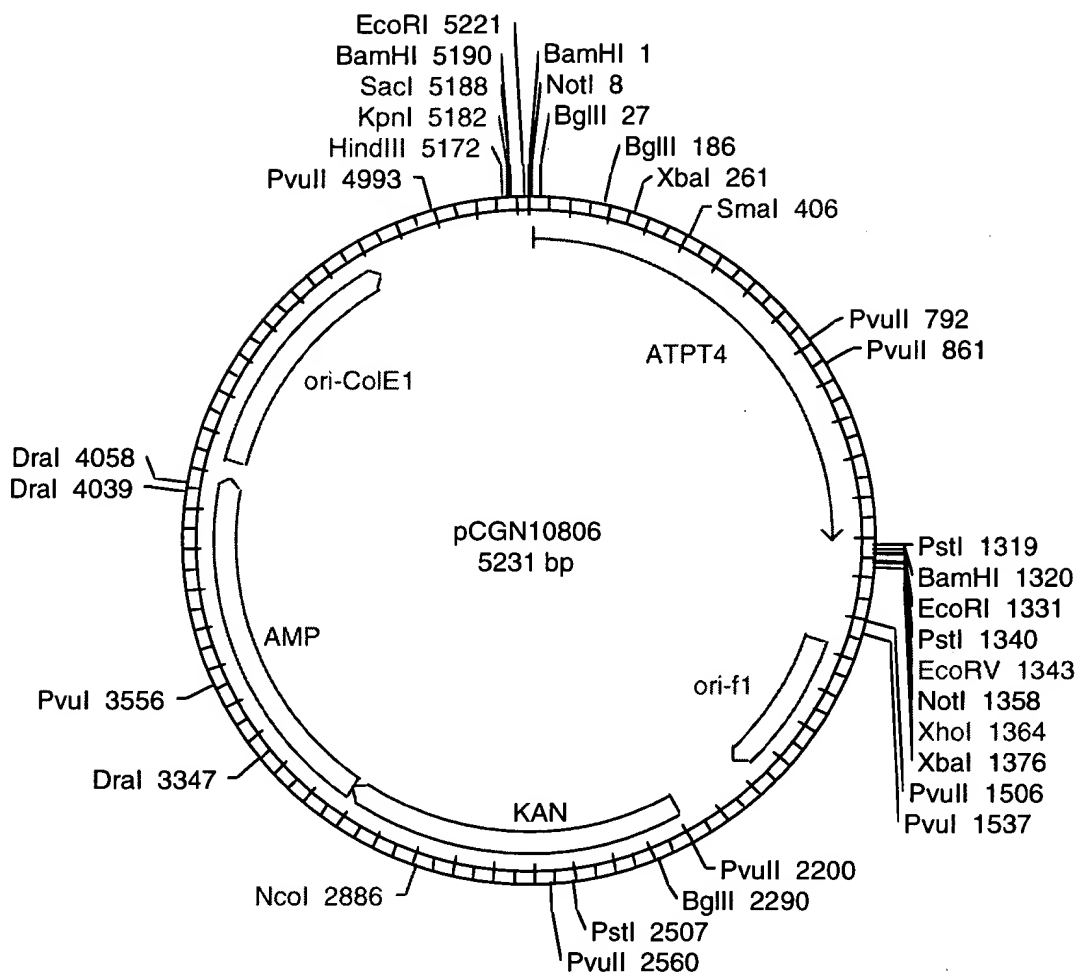


Figure 5

00440-8186450

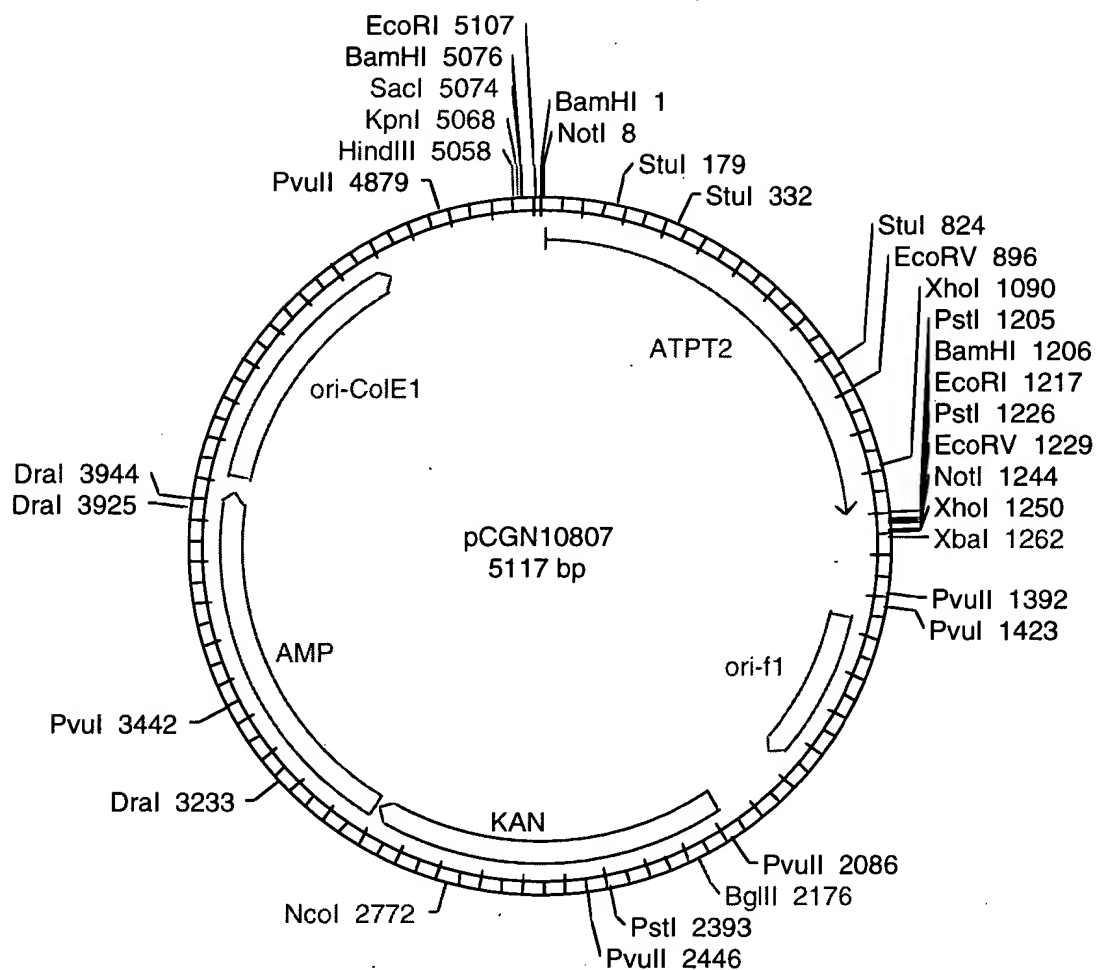


Figure 6

00440-84860

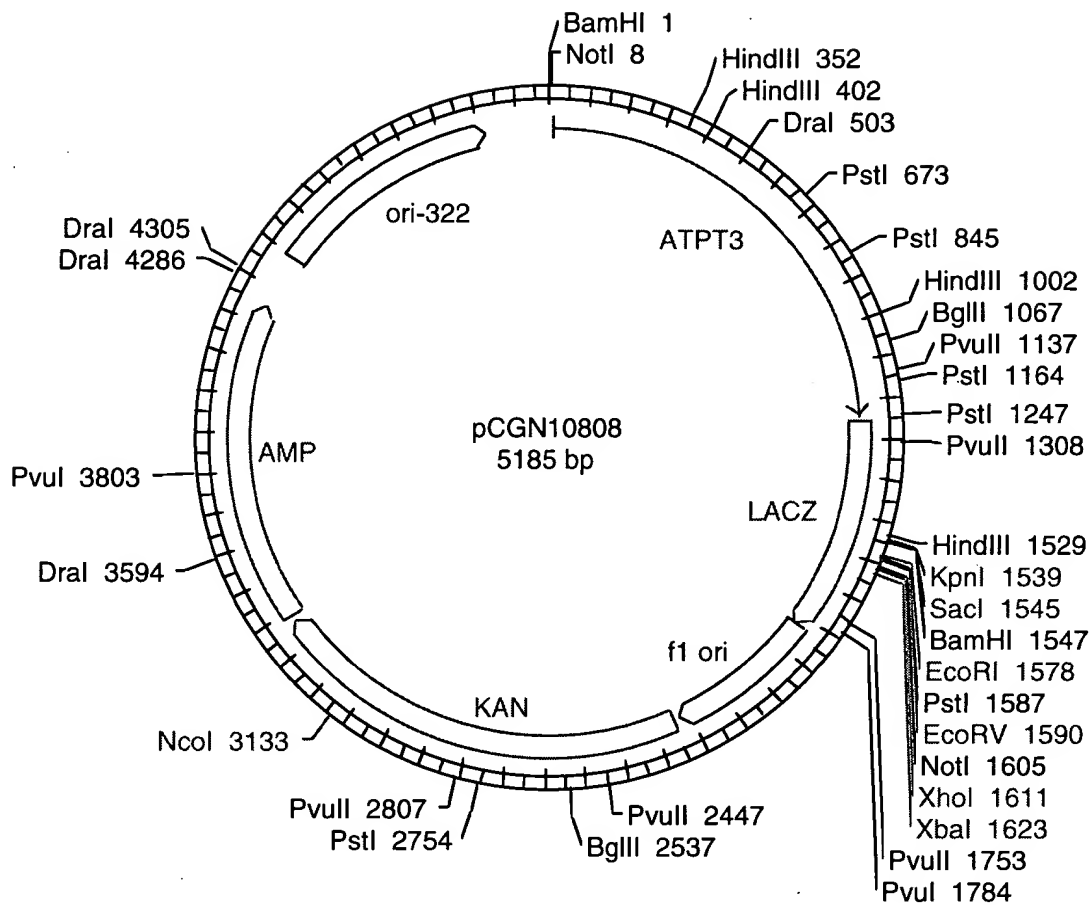


Figure 7

001740" 31861560

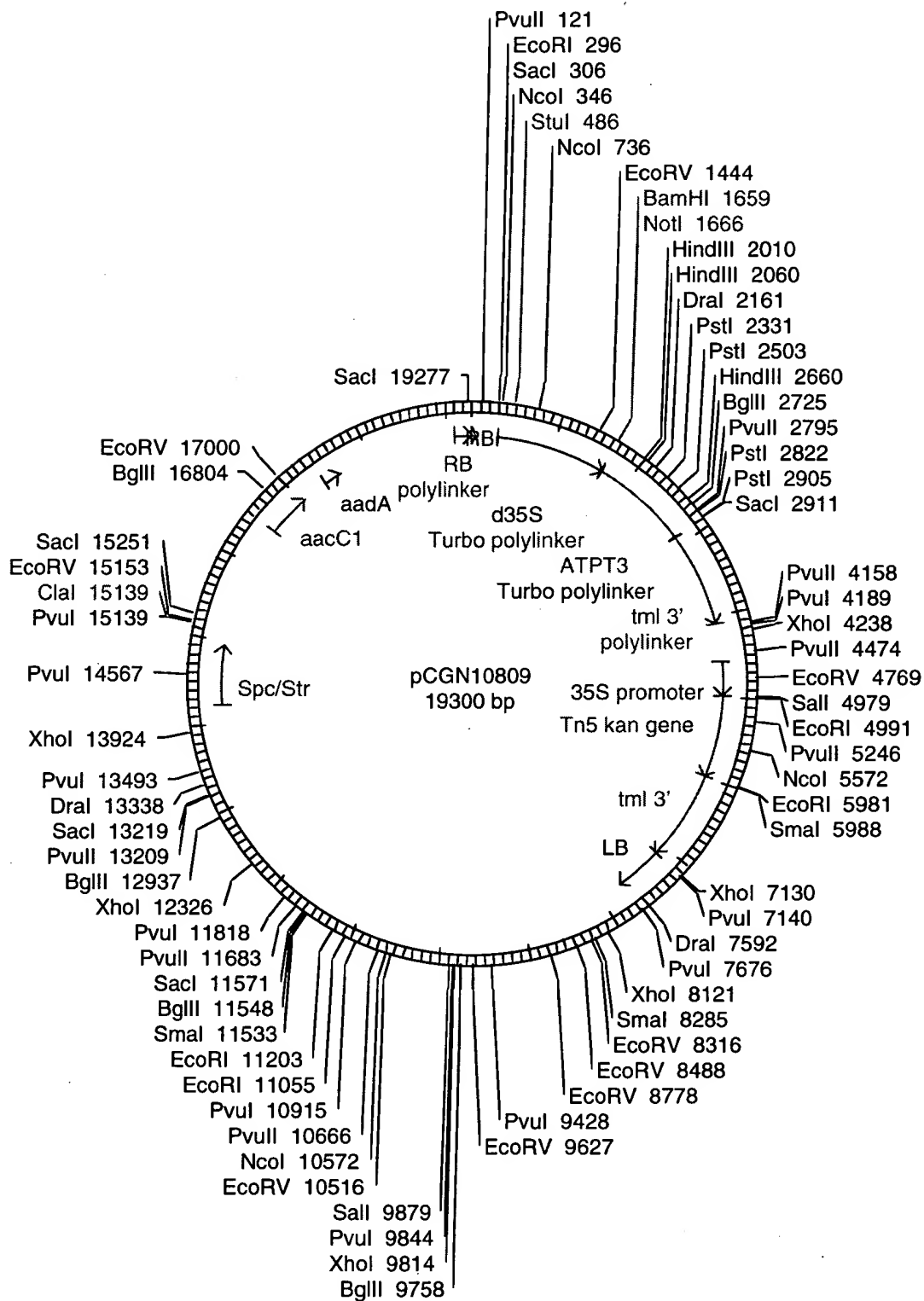


Figure 8

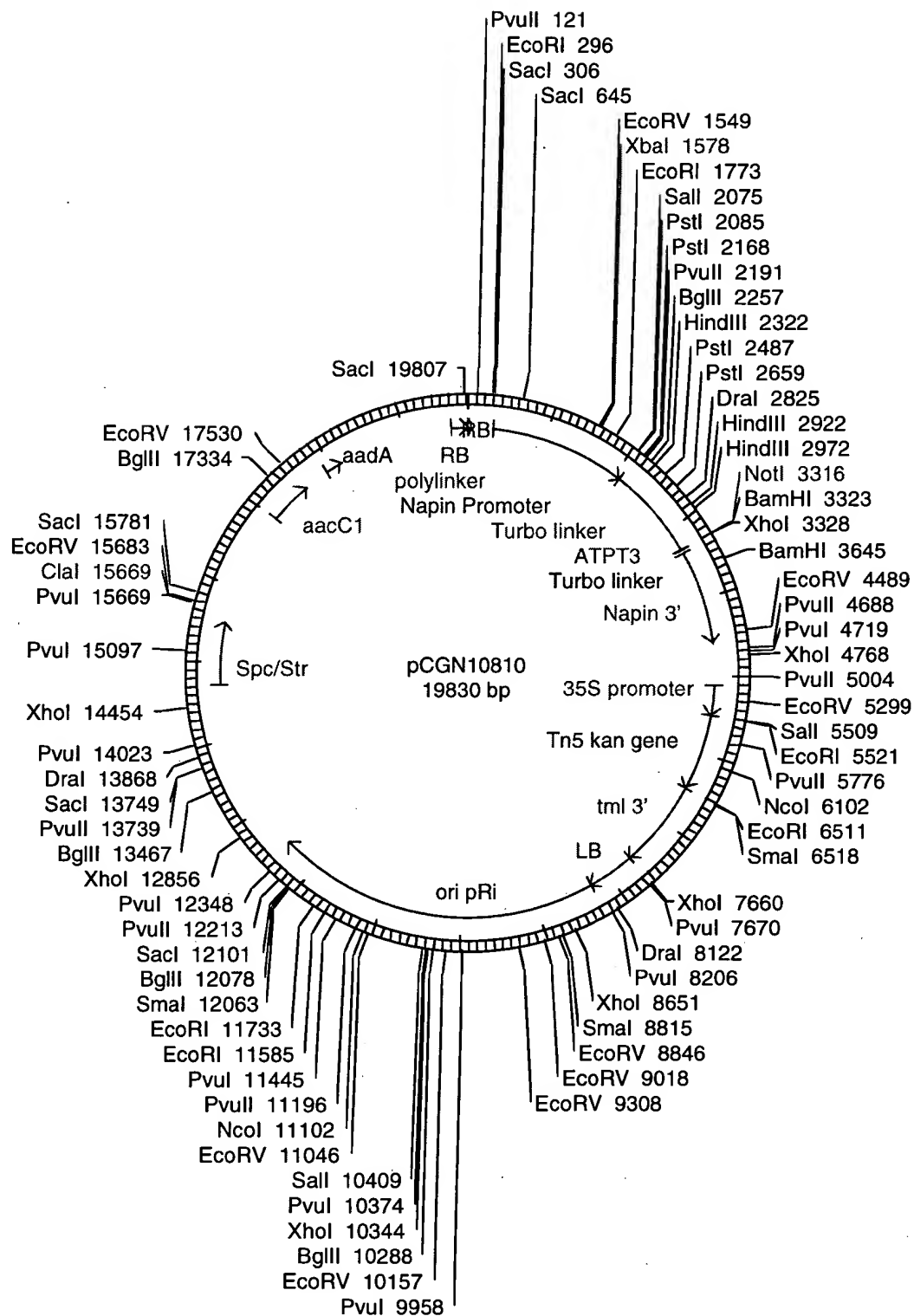


Figure 9

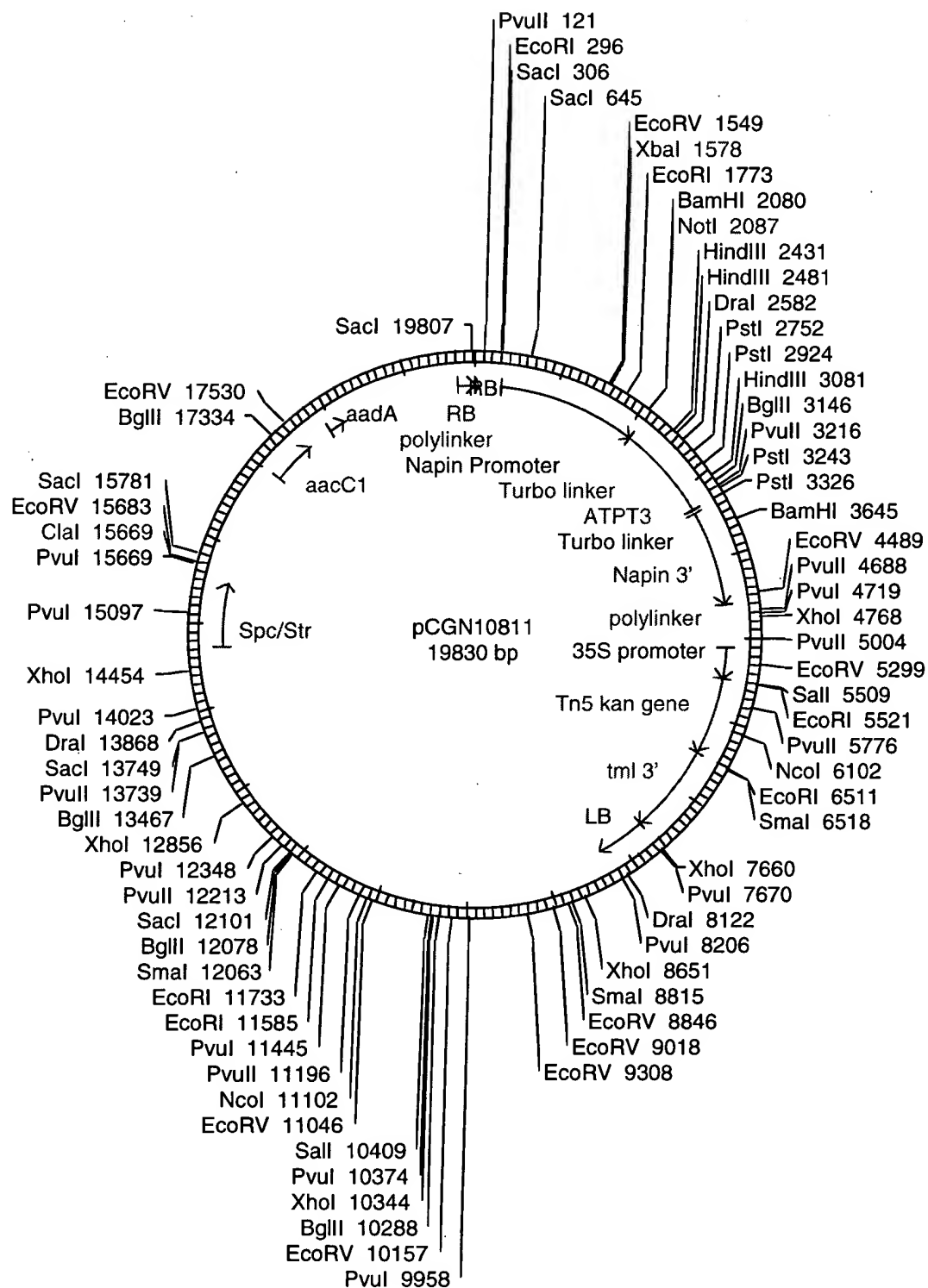


Figure 10

004740-84864560

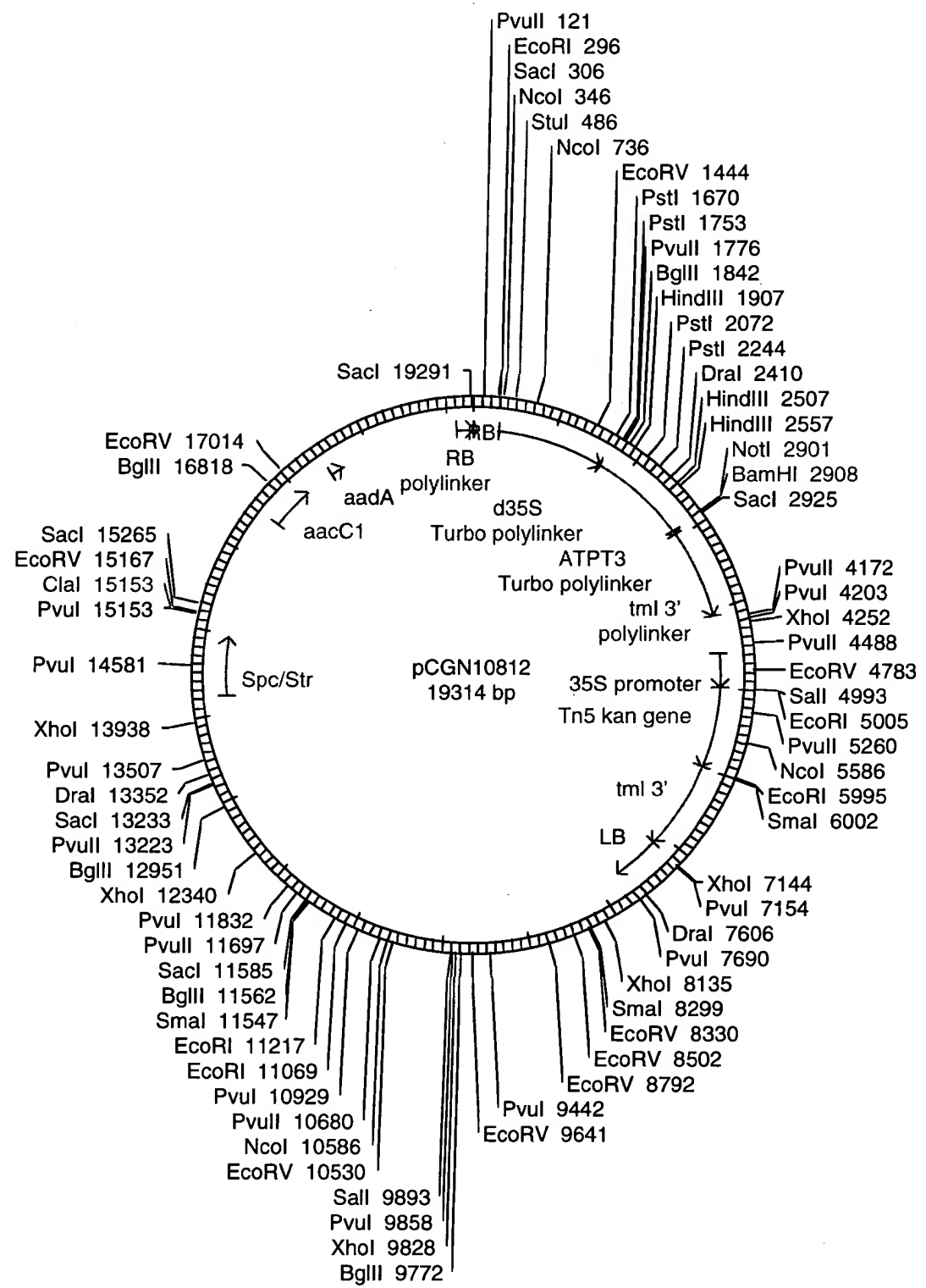


Figure 11

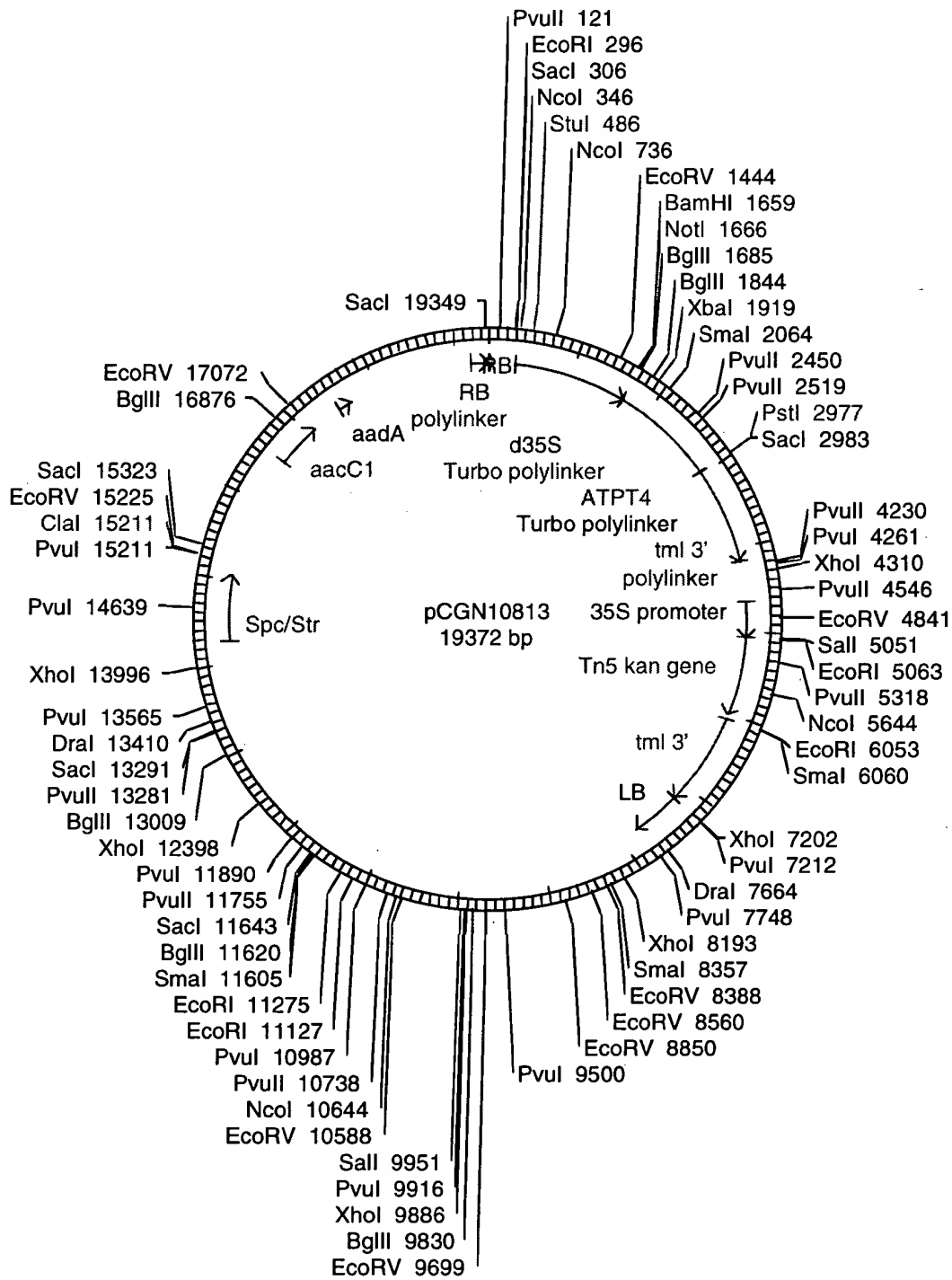


Figure 12

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

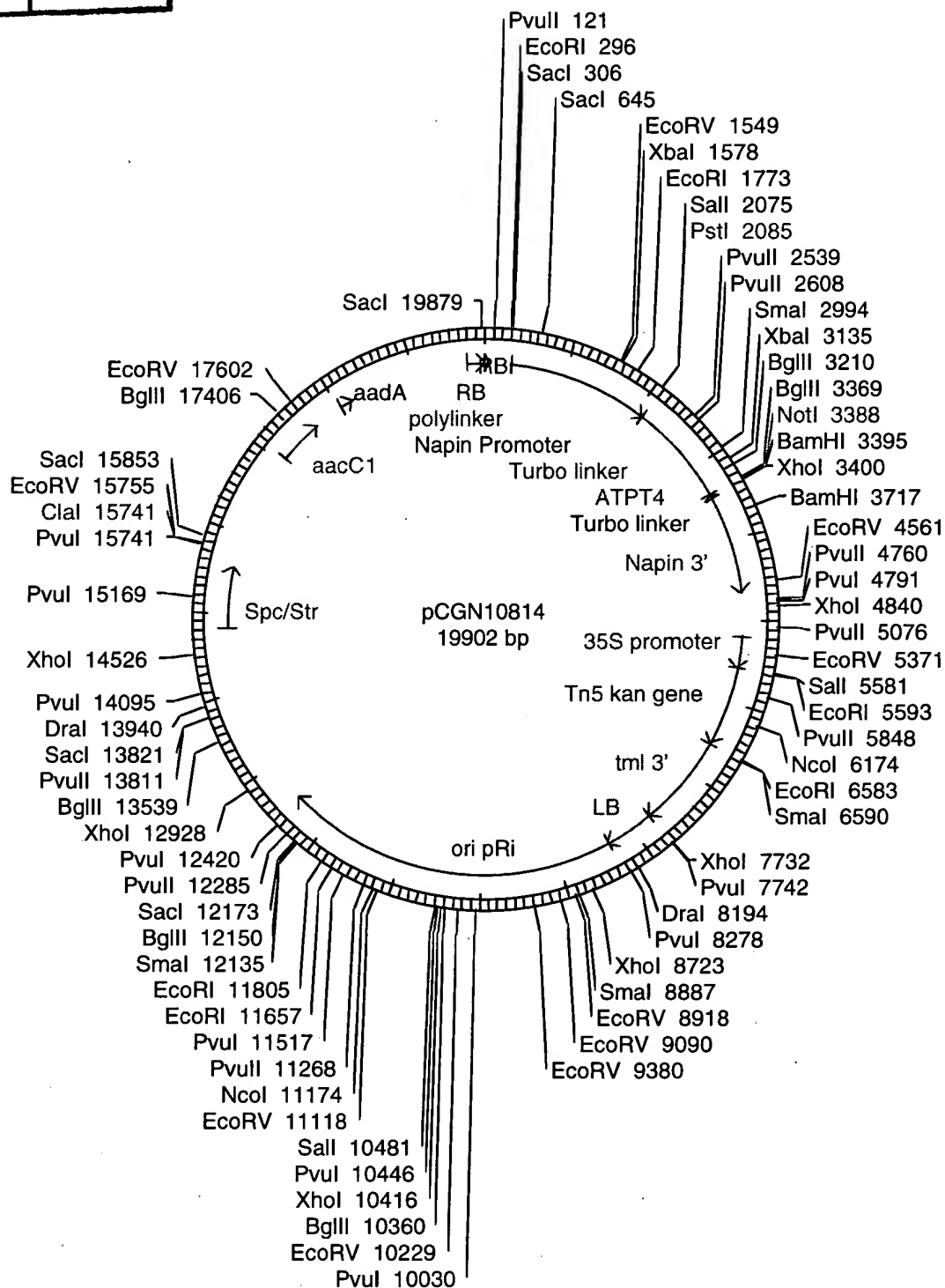


Figure 13

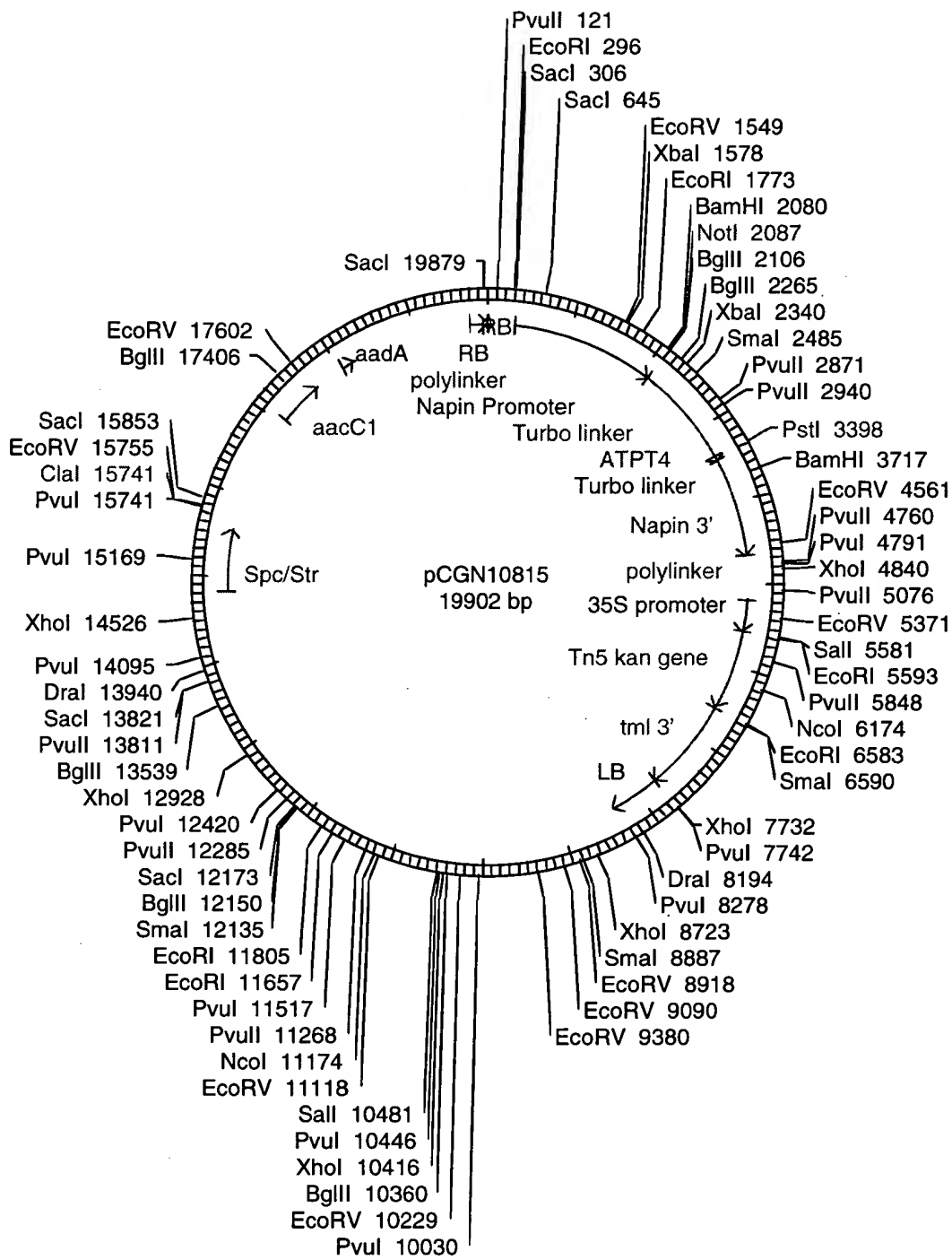


Figure 14

0044948-3485450

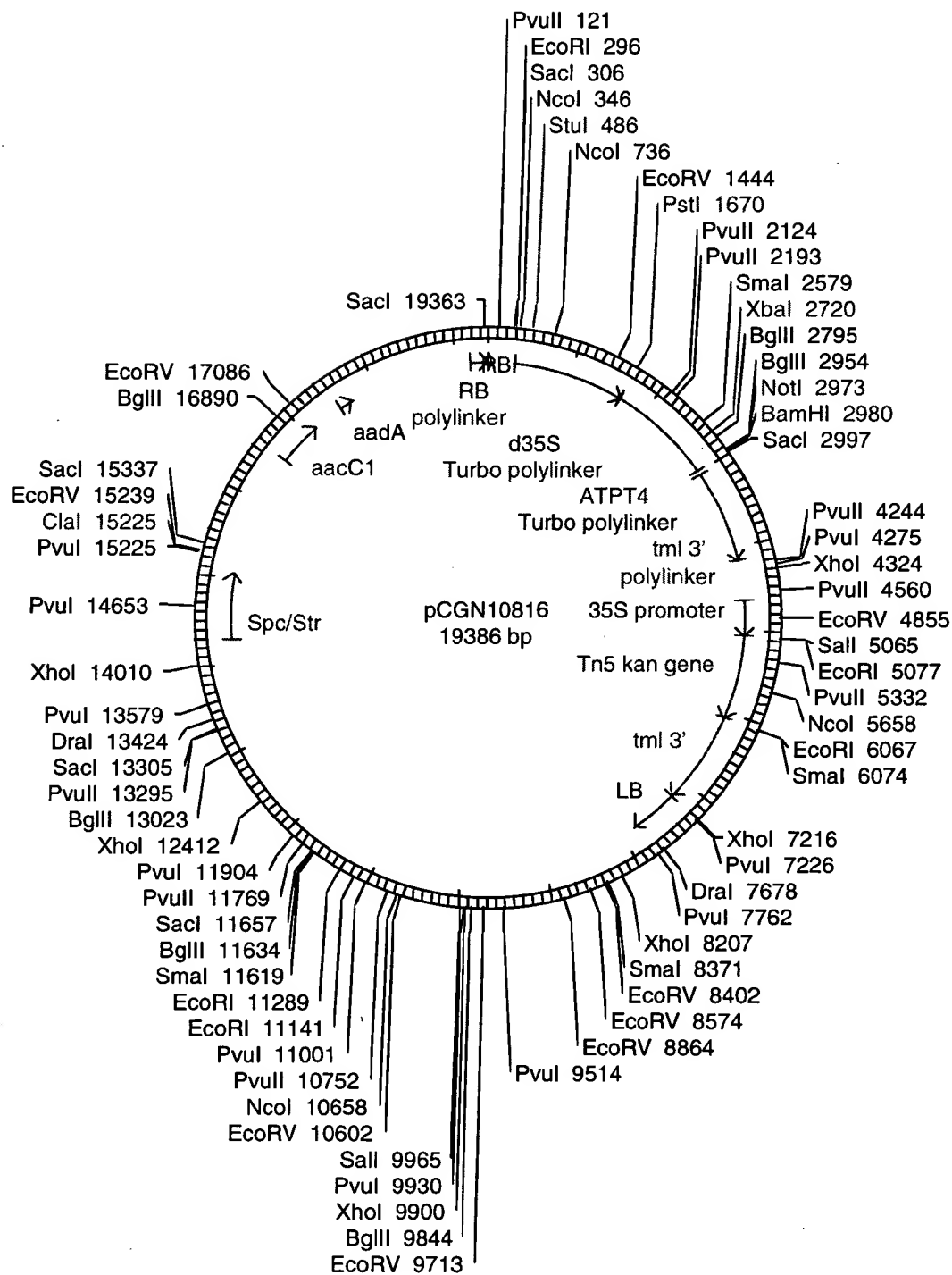


Figure 15

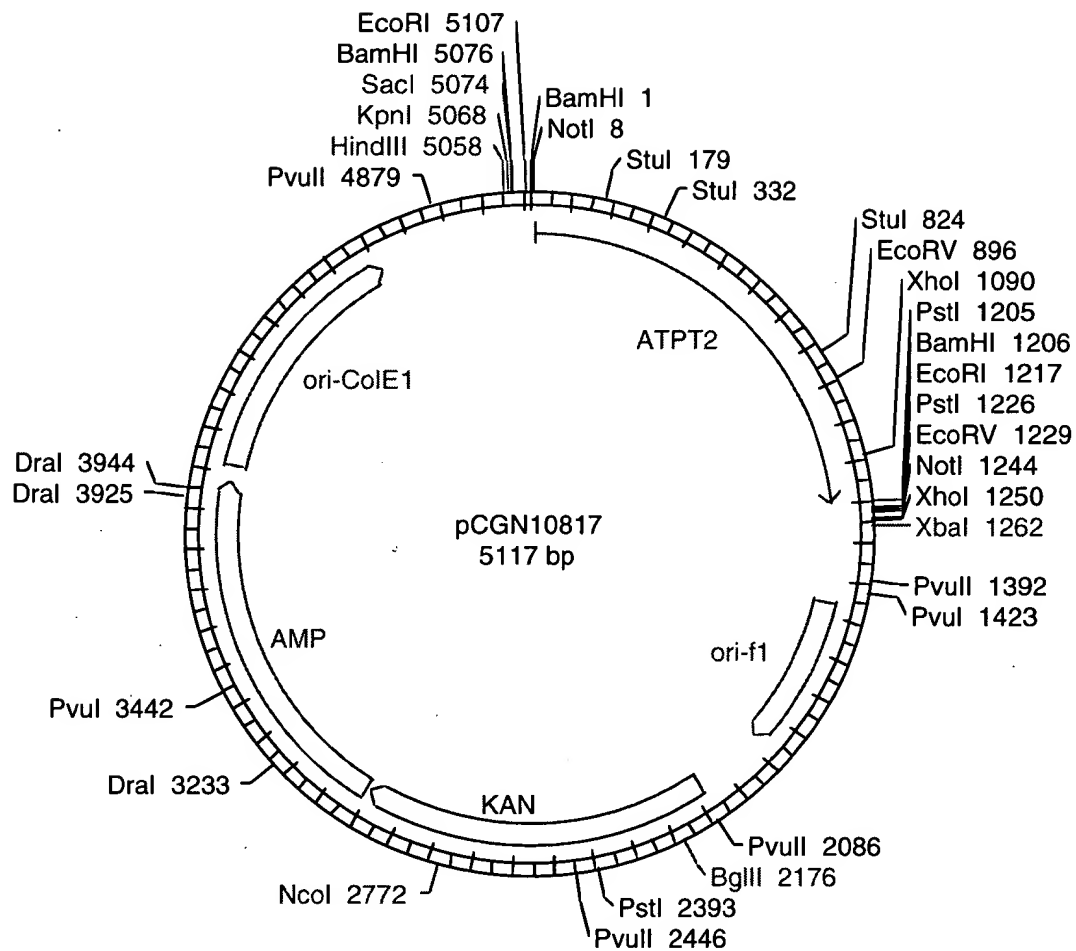


Figure 16

004740" 84864560

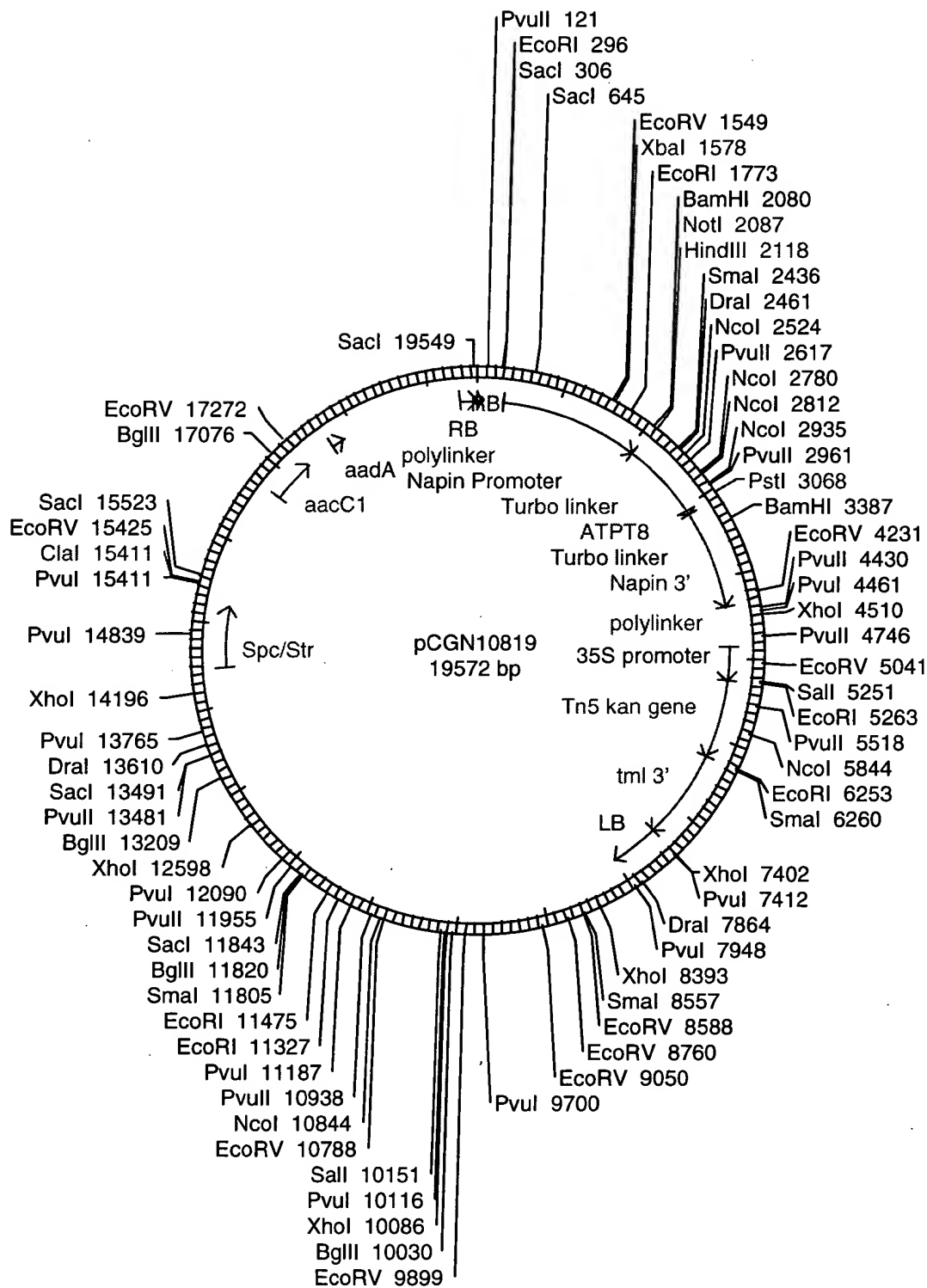


Figure 17

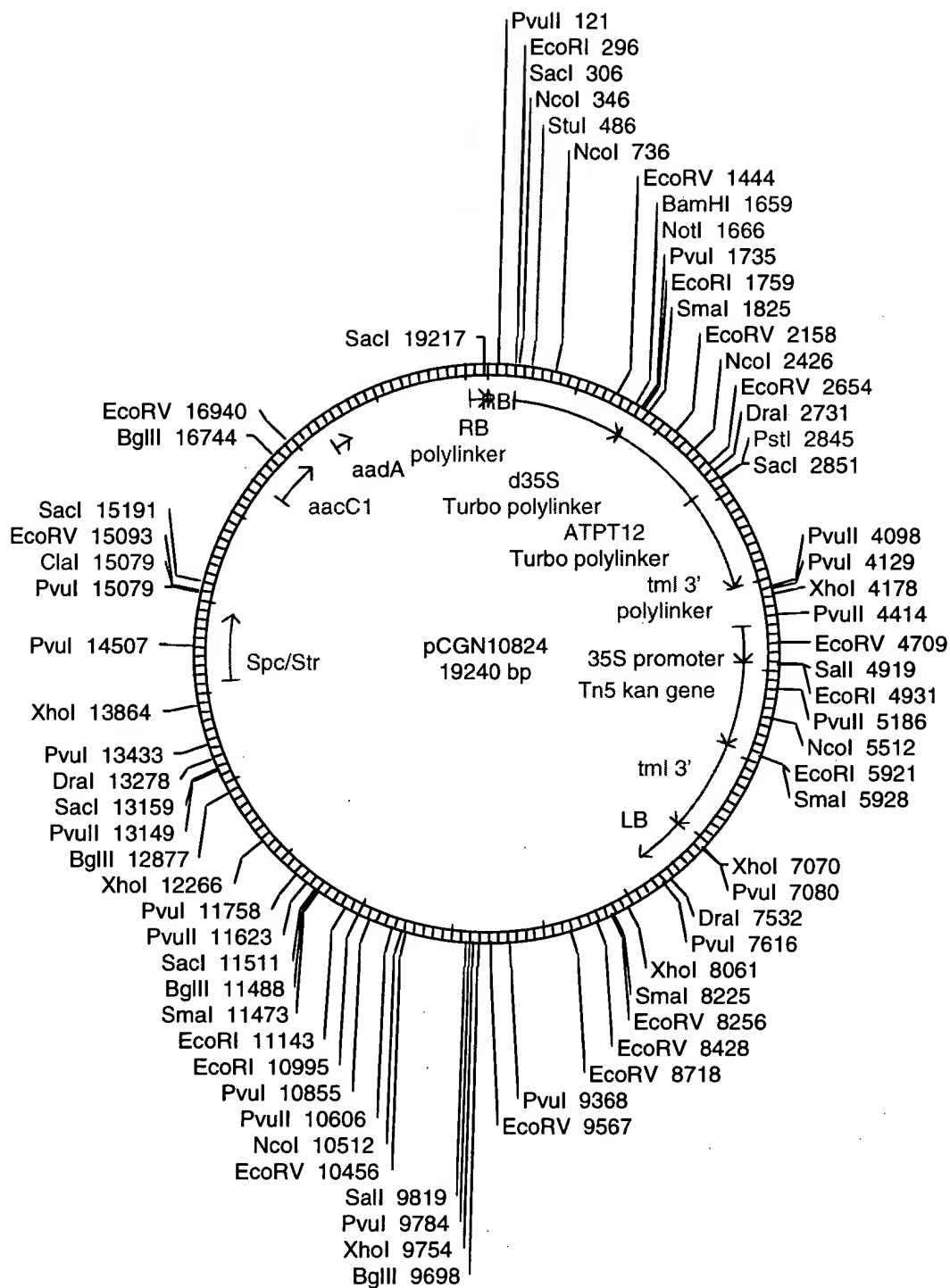


Figure 18

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

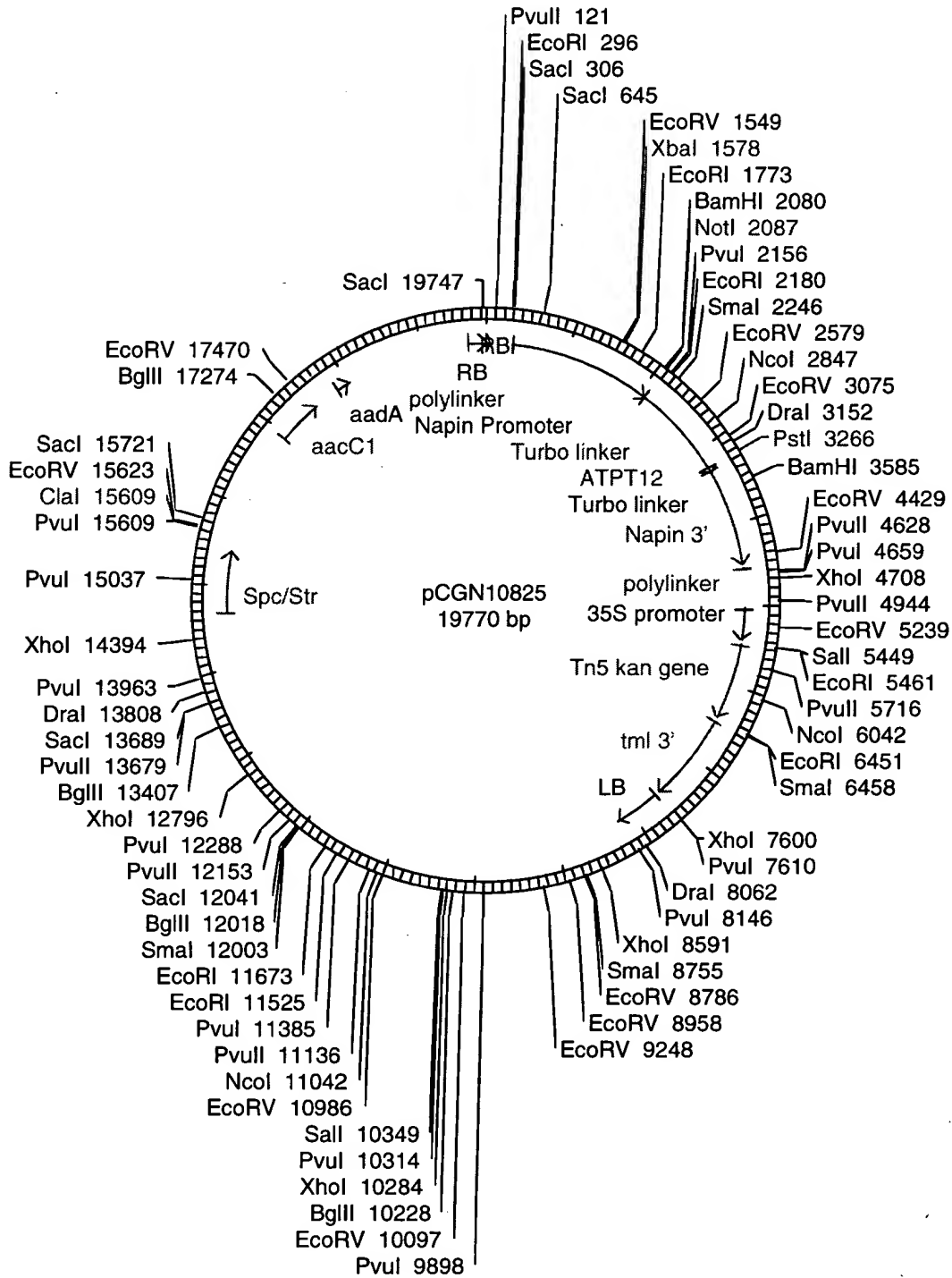


Figure 19

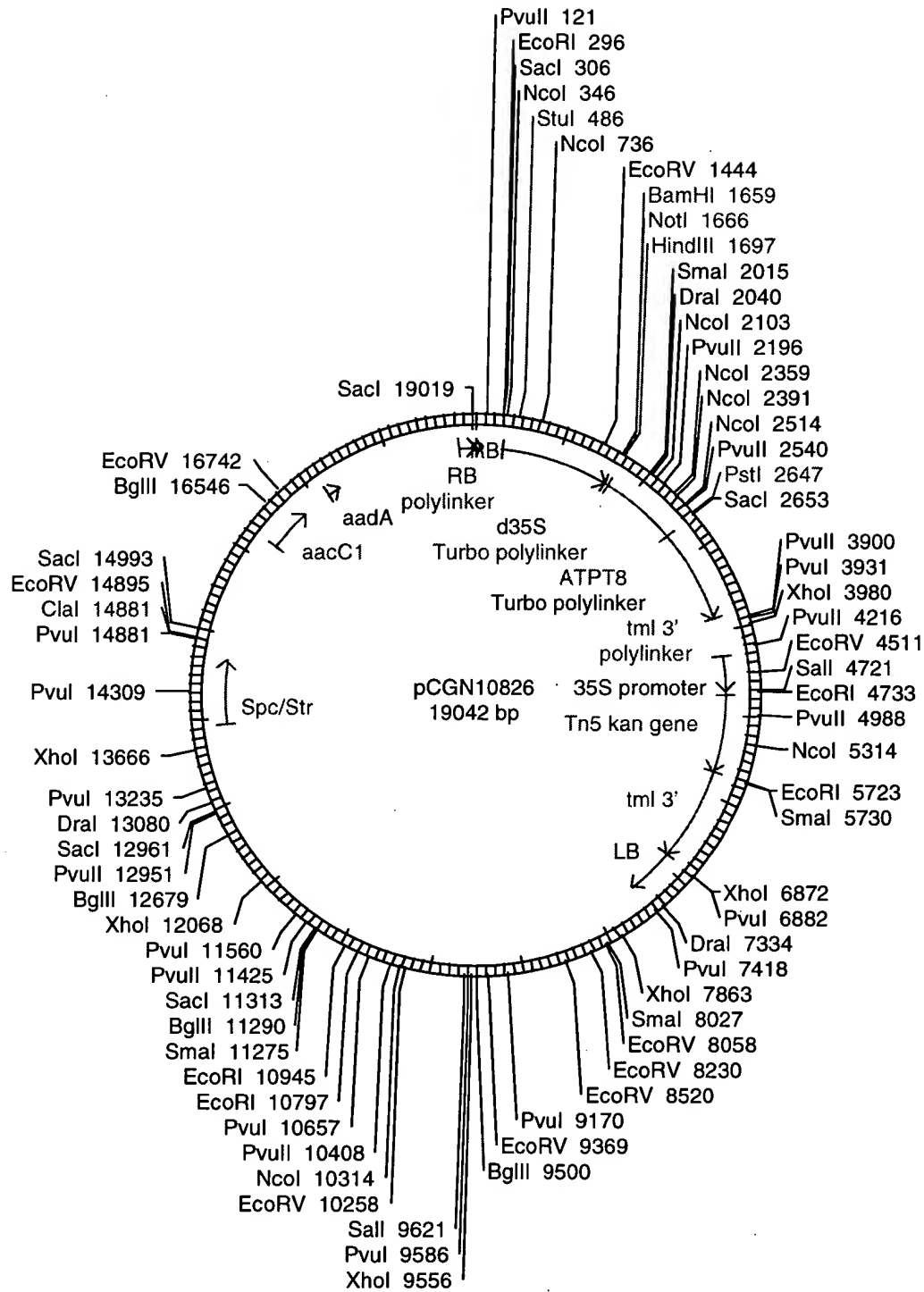


Figure 20

0047E110" 344364560

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SLR1736 : MATIQAFWR-----FSRPHTIIIGTTLS* 20 * 40 * 60 * 80 * 100 * 120 * 140 * 160 * 180
SLR0926 : MVAQHPSS---PPLWLTIIYLRWHQP-----AGRLIIMIBALWA--VCLAAQGLPP-----LDEIFGAWLACIIGNVIVGL : 64
SLL1899 : MVTSTKIHRQDMSGAVCKSYQLTQP-----RIIPILITTAAS--MWIASEGRVD-----LPLILITLGGTIAAASQTL : 68
SLR0056 : MSDIQNTGQ--NQAKARQLLGKMGGAAPGESSIWKIRLOLMKPIITWIPIIINGVVCCAASSGGYIWSVEDFLKALTCMELSGPIMTGYTOTL : 71
SLR1518 : MTESSPLAP--STAPATRKLMWAAIKP-----PMTVAVVRPIITVGSAAVYGLTQWH-----GDVFTIFLLSAAIIAWINLS : 88
M : 71

SLR1736 : NOIMDVDIRINKPNLPANGDFSIAQGRWIVGICGVAASIAIAWGLGLTGLTVGIS--LIIGTAYSVPPVRLKRFSLAALCHITVRGL : 152
SLR0926 : NDIIMDRDIDPQVERTKQRELAARAL--SVQVGIGVALWA--LICACGLAFYITPLS-----FWLCVAAVPMVAYPGAKRVFPVQIVL-SL : 150
SLL1899 : NCIDYDQDIDYEMLESTRARPIPAKGV--OPRHAIIFALALEVLISFALLATFVNVLSCG--LALSGIVFYMTIYTHWLKRHTAQNIVIG-GA : 156
SLR0056 : NDFYDRDIDAINEPYRPIPSGAIISVPOVTOILILLVAGIGVAYGLDVNAQHDFFPIMMVITLGGAFVAYIYSAPPLKLNQNGWLGNY-AI : 177
SLR1518 : NDMFDSITGIDVRKAHSAVNLTGNRNLMFLISNFFLLACGLGLMSMSWRAQDWI-----VIELIGVAIFIGYTYQGPFRGLYLGLGELIC : 157
N 5D Did : 1 a 6 6 1 6

SLR1736 : VVNLGLFIFFRIGLGYPPFLLITPIMVILFELFVVAIAIFKDVPDMEGDRQFKIQTITTIQICKONVFRGTLDELITG-CYTAMALWGLWA : 241
SLR0926 : AWCEAVLISM---AVTGDLDATWVLWGATVFWLGFDTVYAMADREDDEIRIGVNSALFFG-QYNGEAVGIFFA--FTIGCLFYTGMI : 234
SLL1899 : AGSIPPLVGMW---AVTGDLSWTPMVLIFALIFLTPPHFWALAMIKDDYAOVMMPMPVIAEGEKTVSQIMYYSI--LVVPSLILVYP : 241
SLR0056 : GASXIALPWNAG-HATFGLNPTIMVLITLIYSIAGLGTAVNDFKSVGDRQGLKSLPVMFG-IGTAAWICVIML--DVFOAGHAGYLI : 263
SLR1518 : LIIEGPLAIAAAYYSQSFSWNLTTPSMVFGISTAIILFCSHFHQVEDDLAAGKKSPIVRLG-TKLGSQNLITISVVSITITAILGZCH : 246
1 l v1 t e d 6 G

SLR1736 : AMPLNTAELIVSHLCTLALLMWRSDRVHLESKTEIASFYQFIWKTEFFLEYLLYPEALWLPNFSNTIF----- : 308
SLR0926 : LMLNPTYNLSIAIAIVGWIQIYIQLSAPTPPEPKLYGQ--IFGQNVIIIGFVLLACMLLGWT----- : 292
SLL1899 : LHQGLMLAIAIHTGGQFLVKAWQLKQAPGDRDARG-LEKFSSEIYLMILCLAWVIDSLPVTHQLVAQMGTLLG : 316
SLR0056 : YVHQQLYATVILLIPIPOITFQDMYFLRNPLENDVKYQ-ASAOFFLVFGMLATCALCHAGI----- : 324
SLR1518 : QAPWQTLILLIASLPWAVOLLIRHVQYHDQPEQVSCKFIIVNLHFFESGMIMAAAGYGWAGTG----- : 307
p 6

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Figure 21

004770" 2348550

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
TSMAN		

ATPT2	---	20	*	40	*	60	*	80	
SLR1736	---								80
ATPT3	---								-
SLR0926	---								89
ATPT4	---								-
SLL1899	---								67
ATPT12	---								4
SLR0056	---								63
ATPT8	---								4
SLR1518	---								4

ATPT2	---	100	*	120	*	140	*	160	*	1
SLR1736	---									140
ATPT3	---									49
SLR0926	---									170
ATPT4	---									56
SLL1899	---									138
ATPT12	---									60
SLR0056	---									139
ATPT8	---									73
SLR1518	---									63

ATPT2	---	200	*	220	*	240	*	260	
SLR1736	---								228
ATPT3	---								134
SLR0926	---								246
ATPT4	---								132
SLL1899	---								215
ATPT12	---								137
SLR0056	---								223
ATPT8	---								157
SLR1518	---								144

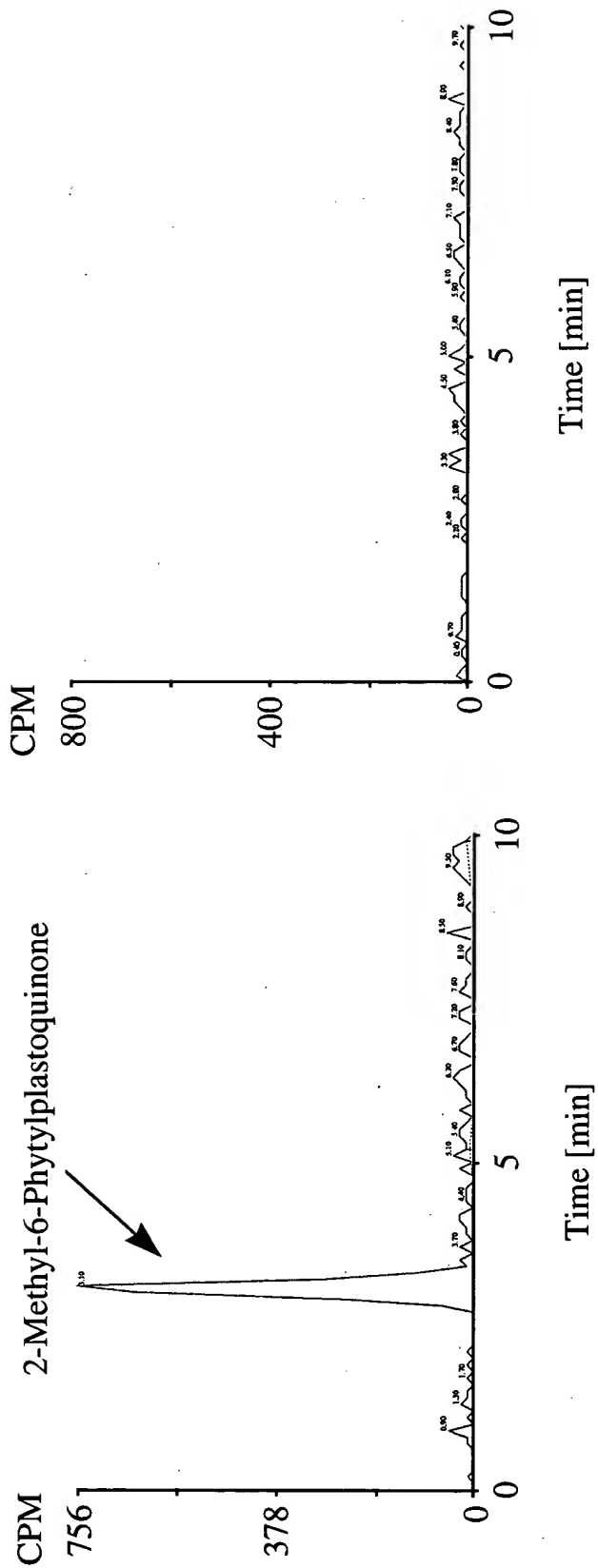
Figure 22 1/2

23

Figure 22 2/2

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

007700 34864560



Synechocystis 6803 wild type *Synechocystis* slr1736 knockout

Figure 23

004740" 84864560

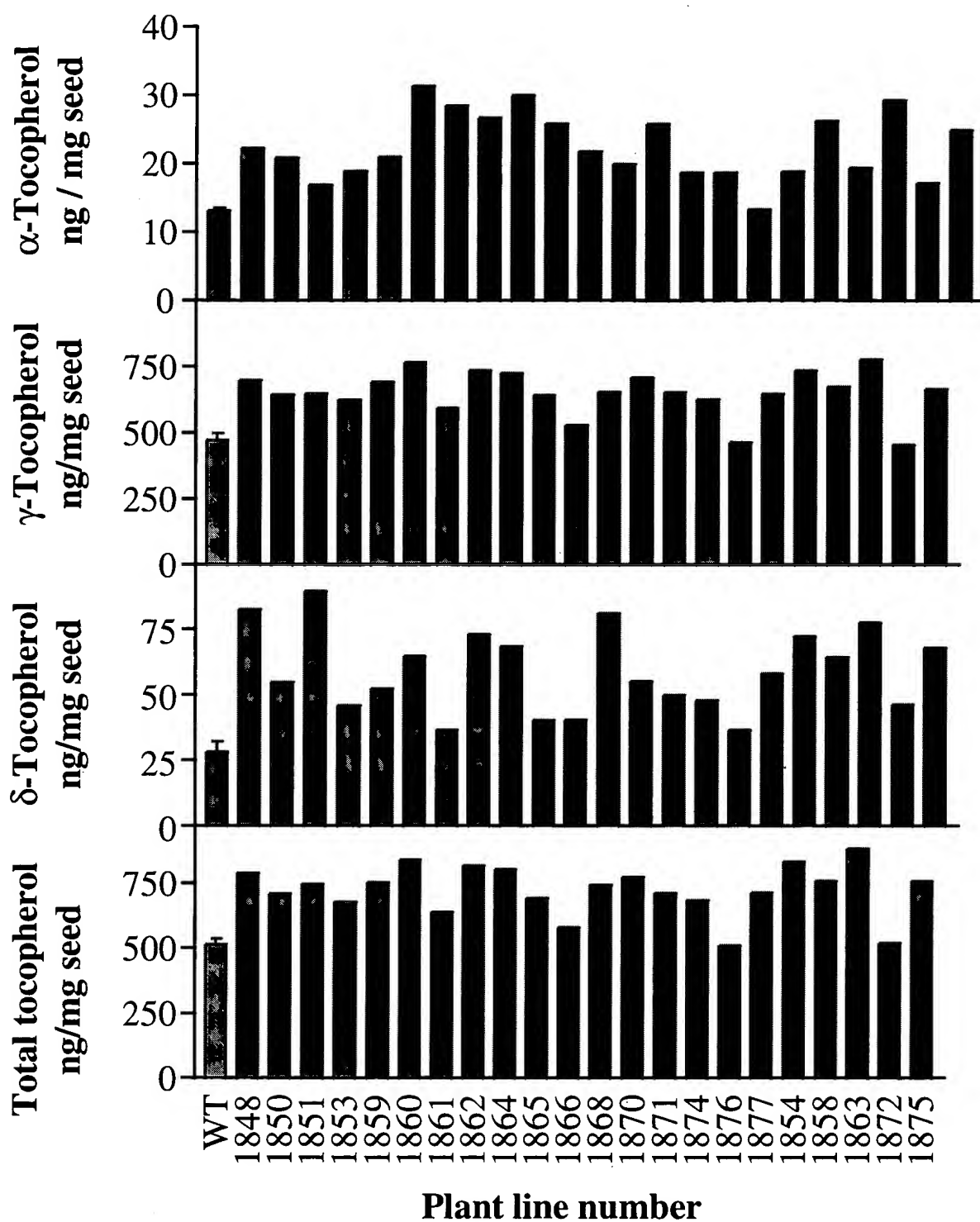


Figure 24

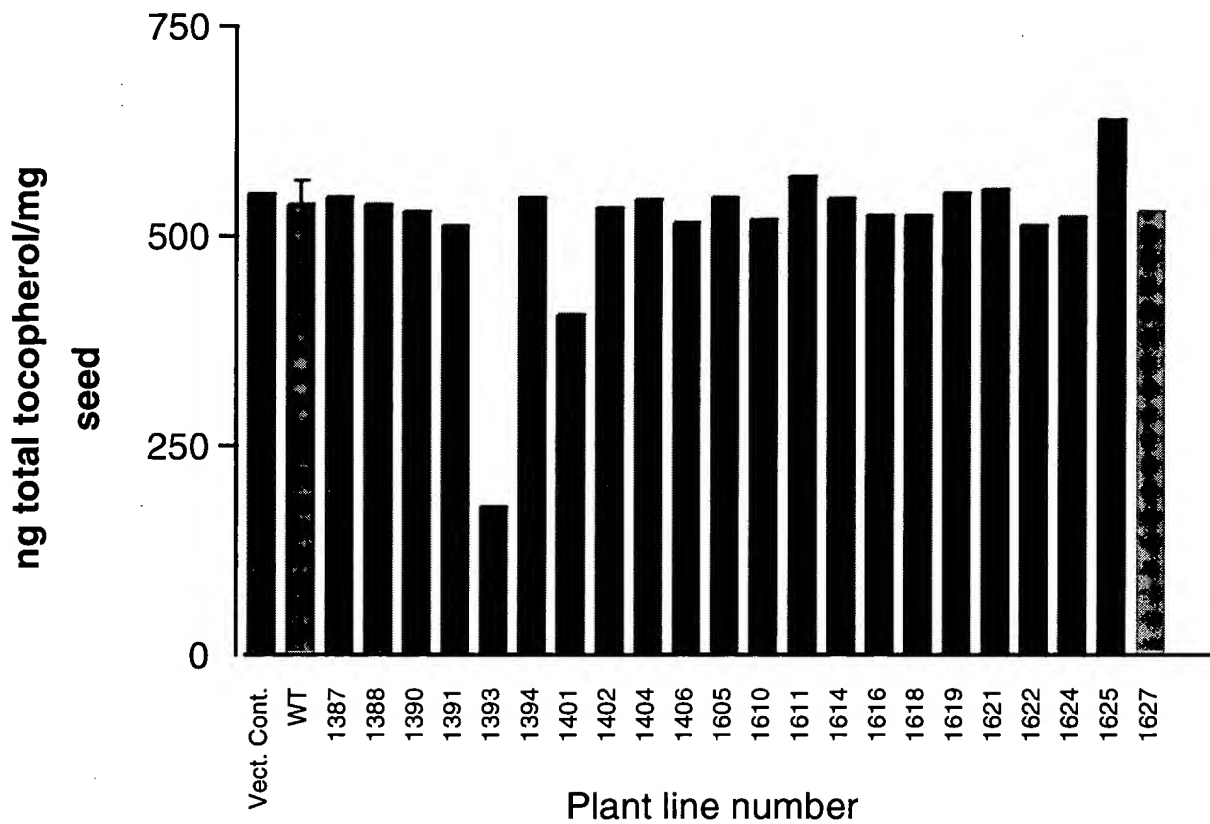


Figure 25

004T40" 8736456